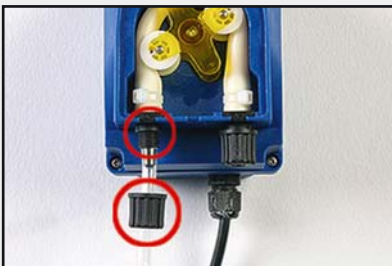


## SAFE AND RELIABLE

**Polypropylene enclosure** extremely shockproof and resistant to chemical aggression

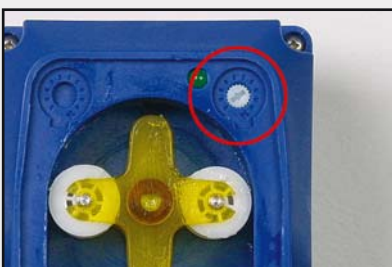


**IP 65 protection degree** and **class 2 electrical insulation** (no ground connection required)



**Extra-strong and long life Santoprene and Sekobril squeeze tubing**, always equipped with inlet-outlet fittings for fast and safe connections

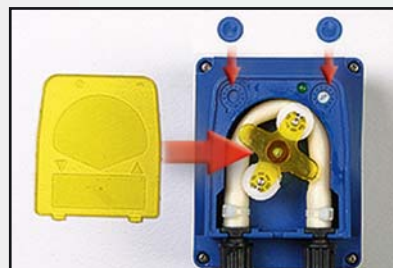
## USER FRIENDLY



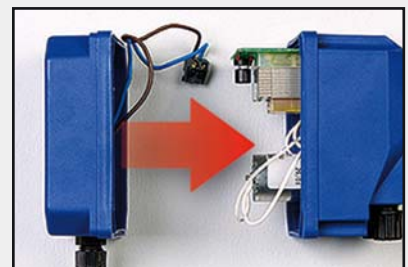
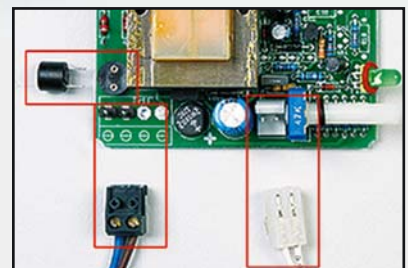
Via **trimmer settings** simple and fast parameters configuration

**SEKO** dosing pumps comply with the provisions contained in the following international standards:

- > 73/23CEE of 19/2/73
- > 89/336CEE of 3/5/89
- > EN60335-1
- > ISO 9001 (version 2000)

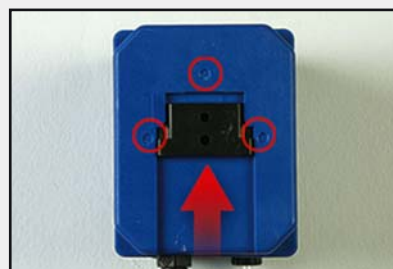


**Plugs for protecting settings** to avoid undesired tampering



**Plugs on circuit board** provide for a quick electrical connection

## EASY INSTALLATION AND MINIMUM MAINTENANCE

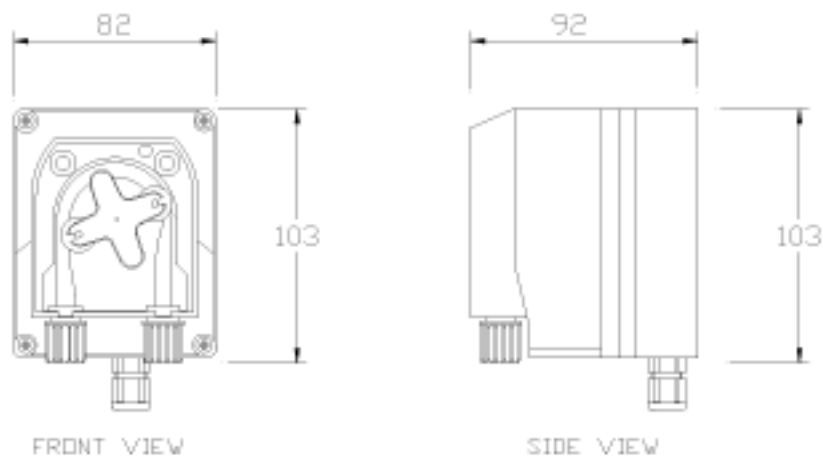


**Easy wall mounting and removing** thanks to the fixing brackets



**Easy tubing replacements.** There's no need to start the pump

## Dimensional Drawings



SEKO PE & PR Pump

## Specifications

GENERAL	
<b>Accessories Included</b>	
Squeeze Tube	Santoprene
Suction Tubing	PVC Natural (PE Black optional)
Discharge Tubing	PE Natural (PE Black optional)
Foot Valve	PVC & PP
Injection Valve	PP with Viton Lip Valve
<b>Physical</b>	
Electrical	220-240 VAC, 50/60Hz
Mounting	Wall
Housing Material	PP
Rating	IP65
Colour	Blue
Dimensions	103mm (h) x 82mm (w) x 92mm (d)

	PE-0.4	PE-1.3	PE-5
<b>Capacity</b>			
Dose Rate	0.4 l/hr	1.3 l/hr	5.0 l/hr
Max Pressure	3 Bar (300 kPa)	3 Bar (300 kPa)	1.5 Bar (150 kPa)

	PR-1	PR-4	PR-7
<b>Capacity</b>			
Dose Rate	0.3 - 1.0 l/hr	1.5 - 4.0 l/hr	3.0 - 7.0 l/hr
Max Pressure	3 Bar (300 kPa)	1.5 Bar (150 kPa)	

# Detergent Pumps



## PA

### Dosing pump with conductivity probe control

Hole for probe connection: 22.5 mm (7/8")

Power supply: 230 Vac. Consumption 3.5 W

MODEL	BAR	L/H
PA 6 (Santoprene tubing)	0.1	6
PA 9 (Santoprene tubing)	0.1	9



## PE

### Fixed flow-rate pump

Power supply 230 Vac

Consumption: 3.5 W

MODEL	BAR	L/H
PE 1.5 (Santoprene tubing)	0.1	1.5
PE 3 (Santoprene tubing)	0.1	3



## PR

### Adjustable flow-rate dosing pump with speed control

Power supply: 230 Vac

Consumption: 3.5 W

MODEL	BAR	L/H
PR 4 (Santoprene tubing)	0.1	4
PR 7 (Santoprene tubing)	0.1	7



## PS

Fixed flow rate dosing pump with timer control, powered via the loading and rinse solenoid valves. Two setting trimmer enable detergent First Fill and Top Up. Power supply: 230 Vac. Consumption: 3.5 W.

First Fill time: 5 to 220 sec.

Top Up time: 1 to 20 sec.

MODEL	BAR	L/H
PS 3 (Santoprene tubing)	0.1	3
PS 10 (Santoprene tubing)	0.1	10



## PRT

Fixed flow rate dosing pump with timer control. Models powered via single or double solenoid valves available. Two setting trimmer enable detergent First Fill and Top up. Power supply: 230 Vac. Consumption: 3.5 W

First Fill time: 18 to 180 sec.

Top Up time: 2 to 15 sec.

MODEL	BAR	L/H
PRT 6 (Santoprene tubing)	0.1	6
PRT 9 (Santoprene tubing)	0.1	9

# Rinse Aid Pumps



## PE

### Fixed flow-rate pump

Power supply 230 Vac

Consumption: 3.5 W

MODEL	BAR	L/H
PE 0.4 (Sekobril tubing)	3	0.4



## PR

### Adjustable flow-rate dosing pump with speed control

Power supply: 230 Vac

Consumption: 3.5 W

MODEL	BAR	L/H
PR 1 (Sekobril tubing)	3	1



## PM

### Fixed flow-rate dosing pump with timer control

Power supply 230 Vac

Consumption: 3.5 W

Dosing time: 1 to 20 sec.

MODEL	BAR	L/H
PM 0.4 (Sekobril tubing)	3	0.4



## PRT

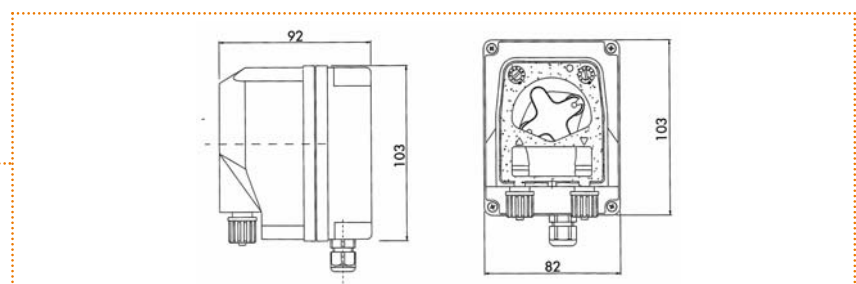
Fixed flow rate dosing pump with timer control. Models powered via single or double solenoid valves available. Two setting trimmer enable rinse-aid dosing. Power supply: 230 Vac. Consumption: 3.5 W.

First Fill time: 18 to 180 sec.









Top Up time: 2 to 15 sec.









MODEL	BAR	L/H
PRT 1.5 (Sekobril tubing)	3	1.5

## Dimensional drawings



# Installation kit and accessories

Installation kit		Detergent Pumps					Rinse Aid Pumps			
		PA	PE	PR	PS	PRT	PE	PR	PM	PRT
	Conductivity Probe	•								
	Wall mounting bracket	•	•	•	•	•	•	•	•	•
	PP injection connector	•	•	•	•	•				
	Suction tubing	•	•	•	•	•	•	•	•	•
	Delivery tubing	•	•	•	•	•	•	•	•	•
	Foot filter	•	•	•	•	•	•	•	•	•
	Stainless Steel non return valve						•	•	•	•
	Boiler non return valve adapter Ø 6-8 mm						•	•	•	•

Accessories		Detergent Pumps					Rinse Aid Pumps			
		PA	PE	PR	PS	PRT	PE	PR	PM	PRT
	Level control system*	•	•	•	•	•	•	•	•	•
	Flexible conduit holder**	•	•	•	•	•	•	•	•	•
	Double wall mounting bracket	•	•	•	•	•	•	•	•	•
	Plastic T connector						•	•	•	•
	Suction device without level probe	•	•	•	•	•	•	•	•	•
	Suction device with level probe			•				•		
	Stainless steel injection connector	•	•	•	•	•				
	Low profile injection connector	•	•	•	•	•				

\* With every type of dosing pump. Two end of product alarm input via level probe in the form of a reed contact signalled with the flashing of the LED. Supplementary Output alarm relay available. Power supply: 230 Vac (24 Vac on demand)

\*\* Ø internal 10mm, Ø external 16mm on demand



## Tubing Characteristics



Tubing	Characteristics	Limitations
<b>Santoprene</b>	Tubing suitable for a wide range of applications supplied as standard in all PBR, PBM, PE, PG and PP Pumps Available in a special version suitable for food application.	Not suitable for solvents
<b>Sekobril</b>	Tubing suitable for a wide range of applications where may be supplied with all range of pumps. Available in a special version suitable for food application.	Not recommended with strong acids or alkaline solution Swells up in many organic solutions
<b>Sekoflex</b>	Tubing with an uncomparable flexibility that assure the constant dosing after ours of operation also. Suitable for Alkaline products.	Not suitable for strong acids, black pigments may leach out.
<b>Sekokem</b>	Tubing suitable for applications where are used very aggressive acids and solvents.	Limited lifetime
<b>Sekofarm</b>	High quality for medical, laboratory and research use Homogeneous structure tubing for a better chemical resistance. Suitable for food and medical applications	More hard than the other tubing may affect the life of the gearbox
<b>Norprene®</b>	Same as Santoprene, is a standard tubing for the PSG and PSH models. Suitable for Alkaline chemicals	Additives and black pigments may leach out
<b>Tygon R-1000®</b>	Tubing with a strong chemical compatibility but low mechanical life.	Become hard and may affect motor life with some chemical whit which ahs a good chemical compatibility

Norprene® AND Tygon R-1000® are a Saint Gobain Co. Reg. TM'

## Tubing Code

	3 x 7	3 x 7,4	3 x 8	4 x 8,6	5 x 8	6 x 9	6 x 10	3/8 x 5/8
<b>Santoprene</b>	9900106234				9900090226	9900106551	9900090057	
<b>Sekobril</b>		9900090121	9900090098	9900090096			9900090068	9900090067
<b>Sekoflex</b>							9900090234	9900090232
<b>Sekokem</b>							9900090249	9900090242
<b>Sekomed</b>								
<b>Norprene</b>								9900090064
<b>Tygon R-1000</b>					9900090256			9900090017
<b>Santoprene Food</b>							9900090113	
<b>Sekobril Food</b>							9900090082	